### **PCT**

### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

### From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
04 January 2001 (04.01.01)
International application No.

Applicant's or agent's file reference

in its capacity as elected Office

PCT/AU00/00639
International filing date (day/month/year)
07 June 2000 (07.06.00)

Priority date (day/month/year) 07 June 1999 (07.06.99)

2302522/DBW .

Applicant

LOW, Sydney; Gordon

	01 [	December 2000 (0	)1.12.00)	<u>.</u>	
in a notice	e effecting later election filed w	vith the International	Bureau on:		
	·			_	
				-	•
The election	X was				
Γ	was not				
	<b>_</b> ,				
made before the Rule 32.2(b).	expiration of 19 months from	the priority date or, v	· vhere Rule 32 appl	lies, within the ti	me limit under
made before the Rule 32.2(b).	<b>_</b> ,	the priority date or, v	vhere Rule 32 appl	ies, within the ti	me limit under
made before the Rule 32.2(b).	<b>_</b> ,	the priority date or, v	vhere Rule 32 appl	lies, within the ti	me limit under
made before the Rule 32.2(b).	<b>_</b> ,	the priority date or, v	vhere Rule 32 app	lies, within the ti	me limit under

Form PCT/IB/331 (July 1992)

Facsimile No.: (41-22) 740.14.35

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

Authorized officer

**Charlotte ENGER** 

Telephone No.: (41-22) 338.83.38

### From the INTERNATIONAL BUREAU

**PCT** 

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

WEBBER, David, Brian
Davies Collison Cave
1 Little Collins Street
Melbourne, Victoria 3000
AUSTRALIE

WEDNESDAY, 2 7 DEC 2000

Date of mailing (day/month/year)

14 December 2000 (14.12.00)

Applicant's or agent's file reference

2302522/DBW

**IMPORTANT NOTICE** 

International application No. PCT/AU00/00639

International filing date (day/month/year)

Priority date (day/month/year)

07 June 2000 (07.06.00)

07 June 1999 (07.06.99)

Applicant

SHARINGA NETWORKS INC. et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AG,AU,DZ,KP,KR,MZ,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 14 December 2000 (14.12.00) under No. WO 00/75818

### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Form PCT/IB/308 (July 1996)

Facsimile No. (41-22) 740.14.35

From the INTERNATIONAL SEARCHING AUTHORITY To: **PCT** NOTIFICATION OF TRANSMITTAL OF DAVIES COLLISON CAVE THE INTERNATIONAL SEARCH REPORT 1 Little Collins Street OR THE DECLARATION MELBOURNE VIC 3000 (PCT Rule 44.1) Date of mailing JUL 20**00** (day/month/year) Applicant's or ag FOR FURTHER ACTION See paragraphs 1 and 4 below 2302522. International filing date International application No. 7 June 2000 PCT/AU00/00639 Applicant SHARINGA NETWORKS INC. et al The applicant is hereby notified that the international search report has been established and is transmitted herewith 1. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally 2 months from the date of transmittal of the When? international search report; however, for more details, see the notes on the accompanying sheet. International Bureau of WIPO Where? Directly to the 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 2. 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: 3. the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Further action(s): The applicant is reminded of the following: 4. Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later) Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. Authorized officer Name and mailing address of the ISA/AU **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA DALE E. SIVER

Telephone No. (02) 6283 2196

Facsimile No. (02) 6285 3929

E-mail address: pct@ipaustralia.gov.au

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2302522		Transmittal of International Search Report  1) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/AU00/00639	7 June 2000	7 June 1999
Applicant SHARINGA NETWORKS	INC. et al	•
This international search report has been prep Article 18. A copy is being transmitted to the		and is transmitted to the applicant according to
This international search report consists of a to	otal of 4 sheets.	
It is also accompanied by a c	opy of each prior art document cited in this re	port.
1. Basis of the report		
<ul> <li>With regard to the language, the i which it was filed, unless otherwis</li> </ul>		s of the international application in the language in
-		e international application furnished to this Authority
	<u>-</u>	ernational application, the international search was
contained in the internation	nal application in written form.	
filed together with the inte	rnational application in computer readable for	n.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readable form.	
the statement that the subs		es not go beyond the disclosure in the international
		identical to the written sequence listing has been
	unsearchable (See Box I).	
3. Unity of invention is lacking	ng (See Box II).	
4. With regard to the title,	the text is approved as submitted by the app	icant.
	the text has been established by this Authori	ry to read as follows:
5. With regard to the abstract, X	the text is approved as submitted by the application	ant
	, ,	le 38.2(b), by this Authority as it appears in Box III. e date of mailing of this international search report,
6. The figure of the drawings to be public	shed with the abstract is Figure No.1	•
X	as suggested by the applicant.	None of the figures
	because the applicant failed to suggest a figur	
	because this figure better characterizes the inv	ention

#### INTERNATIONAL SEARCH REPORT

International application No.

#### PCT/AU00/00639 A. **CLASSIFICATION OF SUBJECT MATTER** Int. Cl. 7: G06F 17/60, 151:00 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) **IPC: AS ABOVE** Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, INSPEC (affiliate, content, charging) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category\* Citation of document, with indication, where appropriate, of the relevant passages P.X 1.7 US 5 948 061 (Merriman et al.) 7 September 1999 Abstract, column 1, lines 62-65, column 8, lines 32-38 X US 5 819 092 (Ferguson et al.) 6 October 1998 1,3,7-9 Abstract, column 3, lines 40-50, column 4, lines 28-32,53-60, column 12, lines 15-23, column 29, lines 41-44, column 30, lines 28-30, 51-55, column 31, lines 1-7 1,3-9 X US 5 717 923 (Dedrick) 10 February 1998 Whole document, especially column 2, lines 12-15, column 4, lines 14-16 column 8, lines 1-4, column 9, lines 34-36, 62-67, column 11, line 62 to column 12, line 6, column 13, lines 19-25, column 15, lines 1-10 $|\mathbf{x}|$ See patent family annex X Further documents are listed in the continuation of Box Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to "A" document defining the general state of the art which is understand the principle or theory underlying the invention not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot "E" earlier application or patent but published on or after be considered novel or cannot be considered to involve an the international filing date inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot or which is cited to establish the publication date of be considered to involve an inventive step when the document is another citation or other special reason (as specified) combined with one or more other such documents, such "O" document referring to an oral disclosure, use, combination being obvious to a person skilled in the art exhibition or other means "&" document member of the same patent family "P" document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 13 July 2000 Authorized officer Name and mailing address of the ISA/AU **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA DALE E. SIVER E-mail address: pct@ipaustralia.gov.au

Telephone No: (02) 6283 2196

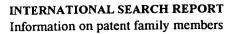
Facsimile No. (02) 6285 3929

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/00639

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	"Vicarious certification and billing agent for Web Information service" (Yoon) IEEE Proceedings of 13 <sup>th</sup> Int. Conf. on Information Networking – ICOIN'98 pp 344-349 dated 21-23 January 1998 Whole document	1,7
Y	"Value-added Internet: a pragmatic TINA-based path to the Internet and PSTN Integration" (De Zen et al.) IEEE TINA 97 pp 13-21 Global Convergence of Telecommunications and Distributed Object Computing 17-20 November 1997 Figure 1, Sections 2.1,2.2,2.3, Figure 3, Section 7	1,7
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International application No. PCT/AU00/00639

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Do	cument Cited in Search Report			Patent	Family Member		
US	5819092	CA	2204736	DE	69511425	EP	792493
		JP	10508964	wo	9615505		
- 							END OF ANNEX

THURSDAY TO MAR 2001/

## PATENT COOPERATION TREATY

From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

DAVIES COLLISON CAVE
1 Little Collins Street
MELBOURNE VIC 3000

**PCT** 

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing day/month/year

1 & APR ZUUT

Applicant's or agent's file reference

International Application No.

PCT/AU00/00639

2302522

International Filing Date

7 June 2000

Priority Date

IMPORTANT NOTIFICATION

7 June 1999

Applicant

SHARINGA NETWORKS INC. et al

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

#### 4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU

AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA

E-mail address: pct@ipaustralia.gov.au

Facsimile No. (02) 6285 3929

Authorized officer

DALE E. SIVER

Telephone No. (02) 6283 2196

## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2302522	FOR FURTHER ACTION		ransmittal of International Preliminary (Form PCT/IPEA/416).
International Application No.	International Filing Da	ite (day/month/year)	Priority Date (day/month/year)
PCT/AU00/00639	7 June 2000		7 June 1999
International Patent Classification (IPC)	or national classification	n and IPC	
Int. Cl. 7 G06F 17/60, 151:00			
Applicant	<b>.</b>		
SHARINGA NETWORKS IN	C. et al		
This international preliminary     and is transmitted to the applic			nternational Preliminary Examining Authority
2. This REPORT consists of a to	tal of 3 sheets, includ	ling this cover sheet.	
This report is also accon	npanied by ANNEXES,	i.e., sheets of the descri	iption, claims and/or drawings which have
been amended and are the Rule 70.16 and Section (	ne basis for this report ar 607 of the Administrativ	nd/or sheets containing re Instructions under the	rectifications made before this Authority (see PCT).
These annexes consist of a tot	al of sheet(s).		
3. This report contains indications relati	ng to the following item	s:	
I X Basis of the repo	rt		
II Priority			
III Non-establishme	nt of opinion with regard	d to novelty, inventive s	step and industrial applicability
IV Lack of unity of	invention		
	ent under Article 35(2) v lanations supporting suc		inventive step or industrial applicability;
VI Certain documen	its cited		
VII Certain defects in	n the international applic	cation	
VIII Certain observati	ions on the international	application	
Date of submission of the demand		Date of completion of t	he report
1 December 2000		12 April 2001	_
Name and mailing address of the IPEA/AU		Authorized Officer	
AUSTRALIAN PATENT OFFICE	PD A L LA		
PO BOX 200, WODEN ACT 2606, AUST E-mail address: pct@ipaustralia.gov.au		DALE E. SIVER	
Facsimile No. (02) 6285 3929	į.	Telephone No. (02) 62	283 2196

# PETERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

## PCT/AU00/00639

I.	Basis of the rep rt
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the claims, pages, as originally filed,
	pages , as amended (together with any statement) under Article 19,
	pages, filed with the demand, pages, received on with the letter of
	the drawings, pages, as originally filed,
	pages , filed with the demand,
	pages, received on with the letter of
	the sequence listing part of the description:
	pages , as originally filed
	pages , filed with the demand
	pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:  the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are rejerred to the miss report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
**	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report
L	

International application No.

PCT/AU00/00639

	V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations	s
and explanations supporting such statement		and explanations supporting such statement	l

1. Statement		
Novelty (N)	Claims 1-9	YES
	Claims	NO
Inventive step (IS)	Claims 1-9	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-9	YES
	Claims	NO

- 2. Citations and explanations (Rule 70.7)
- D1 WO 98/57285 (Messer) 17 December 1998 New Citation (family of US 5 991 740)
- D2 US 5 948 061 (Merriman et al.) 7 September 1999 (See Box VI)
- D3 US 5 819 092 (Ferguson et al.) 6 October 1998
- D4 US 717 923 (Dedrick) 10 February 1998
- D5 "Vicarious certification and billing agent for Web Information Service" (Yoon) IEEE ICOIN'98

### Novelty

D1 is the closest prior art with respect to tracking user referrals from advertising on web pages to merchant web sites. Although the affiliate content is distinguished for the purposes of charging the merchant, D1 does not disclose charging the user. Claims 1-9 are directed to charging a user, and therefore are novel in light of D1.

Documents D2 to D5 have been reconsidered since the ISR and are distinguished by either not charging a user, not charging an affiliate or not recording the content accessed by a user.

The claims satisfy novelty under PCT rules.

### **Inventive Step**

There is no suggestion in the above documents of either charging a user or charging an affiliate for content accessed by a user. It would not be obvious to charge a user for access to non-affiliate content, therefore the claims satisfy PCT rules for inventive step.

### (19) World Intellectual Property Organization International Bureau





### (43) International Publication Date 14 December 2000 (14.12.2000)

### **PCT**

# (10) International Publication Number WO 00/75818 A1

(51) International Patent Classification<sup>7</sup>: G06F 17/60, 151/00

(21) International Application Number: PCT/AU00/00639

(22) International Filing Date: 7 June 2000 (07.06.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PQ 0808

7 June 1999 (07.06.1999) AU

(71) Applicant (for all designated States except US): SHARINGA NETWORKS INC. [US/US]; 1310 King Street, Wilmington, DE 19801 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LOW, Sydney, Gordon [AU/AU]; 9 Evans Road, Kew, Victoria 3101 (AU).

(74) Agents: WEBBER, David, Brian et al.; Davies Collison Cave, 1 Little Collins Street, Melbourne, Victoria 3000 (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

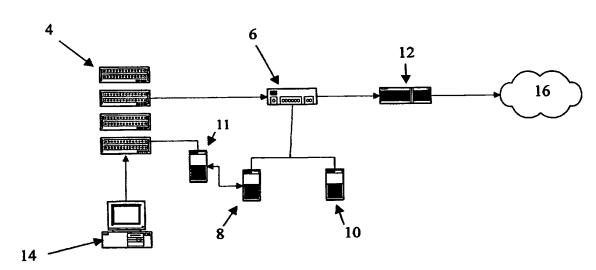
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### (54) Title: A CHARGING METHOD AND SYSTEM



(57) Abstract: A charging method, including maintaining a record of content of a communications network accessed by a user of the network, determining on the basis of the record a charge for an affiliate based on access of content associated with the affiliate, and determining on the basis of the record a charge for the user based on access of other content of the record.

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PCT/AU00/00639

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WO 00/75818

- 1 -

## A CHARGING METHOD AND SYSTEM

The present invention relates to a method and system for charging for use of a communications network, such as the Internet.

Most Internet users currently connect to the Internet via the equipment of an Internet service provider (ISP), and are charged for the time that they remain connected. The applicant has developed a method and system to provide users with access to certain content, without attracting the session connection charge, as described in the specification of International Patent Application No. PCT/AU00/00418, herein incorporated by reference and referred to as "the access system specification". The "free" content can be provided by organisations or individuals that are considered to be affiliates or associates of the ISP. The cost of providing the connection to the free content however still needs to be recovered by the ISP. Also the affiliates, in return for providing the free content, will wish to receive information which indicates that they are deriving a benefit from the affiliation with the ISP. It is desired to provide a method and system for charging which addresses the above problems or at least provides a useful alternative to existing charging methods or systems.

In accordance with the present invention there is provided a charging method, including:

maintaining a record of content of a communications network accessed by a user of the network;

determining if said content is affiliate content;

generating a charge for an affiliate based on access of said affiliate content; and generating a charge for said user based on access of other content of said record.

The present invention also provides a charging method, including:
maintaining a record of content of a communications network accessed by a user of the
network:

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- 2 -

determining on the basis of said record a charge for an affiliate based on access of content associated with said affiliate; and

determining on the basis of said record a charge for said user based on access of other content of said record.

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The present invention also provides a charging system and charging software for executing steps of the method.

A preferred embodiment of the present invention is hereinafter described, by way of example only with reference to the accompanying drawings, wherein:

Figure 1 is a block diagram of a preferred embodiment of a communications network access system; and

Figure 2 is a flow diagram of a preferred embodiment of a charging method executed by the system.

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A communications access system, as shown in Figure 1, includes a plurality of remote access servers (RASs) 4, a layer four or higher switch 6, a database server 8, a web server system 10 and a router 12. The RASs 4 are provided to allow the computers 14 of remote users to dial into the system using standard telecommunication lines and modems and connect to the input ports of the RASs 4, respectively. On connection to a port of a RAS 4, the RAS 4 and the user's computer 14 establish a unique TCP/IP session and the IP traffic for that session is switched by the switch 6. Once the user is authenticated or approved, as described below, the user's computer 14 is allowed to access requested data on the Internet 16. The web server system 10 is used to control pages presented to a user 14 connected to the RAS 4 and handle authentication using a member profile database maintained on the database server 8, as described below. A RADIUS (Remote Authentication Dial In User Service) authentication server 11 is also provided for use in authentication. As far as the user 14 is concerned, the equipment 4, 6, 8, 10, 11 and 12 of the access system is part of the Internet.

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The equipment 4 to 12 preferably includes standard commercially available hardware and basic database, web server and Internet access software which is known to those skilled

- 3 -

in the art and is used in the access systems of most ISPs. The equipment 4 to 12 then also includes unique program code to manage and control each session. The layer four or higher switch 6 is another exception. The switch 6 is normally used by ISPs to balance the traffic handled by the RASs 4. An example of a suitable layer four switch is the AceDirector AD3<sup>TM</sup> produced by Alteon WebSystems Inc. The access system differs from that offered by ISPs, as described in the access system specification, in that the layer four switch 6 is used to connect users to the web server system 10 and control access to the Internet 16 for the users 14 on the basis of a limited number of access states encoded in the switch 6. Alternatively the unique program code and the equipment 4 to 12 could be substituted, entirely or in part, by unique integrated circuits, such as ASICs, to execute the same functions. The system is the same as that described in the access system specification, except that it further includes software components executed by either the database server 8 or the web server 10 to execute the charging method described below.

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On connecting to the Internet using the access system, all of the locations, or URLs, which the user 14 accesses are passed by the switch 6 and stored in the database 8 as part of a member access record. With the locations, an initial time of access is also recorded. This occurs at step 20 as shown in Figure 2. Thus for each TCP session for a user, the member access record indicates the start of the session and holds a set of locations and initial access times. The differences between the initial access times provide information on the time which a user spends at each location during the session.

When the access system is to be used as a charging system, to facilitate charging of users and affiliates who provide free content, the member access records are retrieved from the database 8 at step 22 and sequentially processed. A determination is made at step 24 as to whether the recorded locations of a member or user record correspond to affiliate locations. Affiliate locations are those locations on the Internet 16 or web server 10 designated by URLs which hold free content of parties affiliated with the provider of the system. If the location is not an affiliate location, then this is reported at step 26 and a charge record compiled for the user based on the user's access of the locations in the member access record which are not affiliate locations. The charge may be a standard flat rate charge or a time rate charge based

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on the time of access, or any other charging basis which may be employed by ISPs to charge users.

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If it is determined at step 24 that a location is an affiliate location, then this is reported at step 28 and details of the access of the affiliate location retained in order to charge the affiliate. An affiliate record is generated at step 30 based on the captured data which would include the affiliate locations accessed, the access times, and the period of time for which the locations are accessed, together with identifying details concerning the user accessing the locations. The affiliate record is stored on the database 8 and can be accessed as part of a secure web site on the web server 10 for affiliates. The data held in the affiliate records can be reported to the affiliates in various formats on the secure web site. The affiliates can be charged automatically at step 28 based on time rates for access or other charging schemes based on the user's access of the affiliate locations. The charge can also be determined and rendered after subsequent processing of the affiliate record. The charges can be passed on to members and affiliates in various ways, such as by invoicing or electronic credit card transactions.

The above charging method and system is particularly advantageous as it establishes for ISPs an entirely different charging model to that which is presently exploited. Content providers, i.e. affiliates, can be charged as well as users who connect to the Internet. This is also particularly advantageous for users as they are provided with access to content free of charge. The content providers are also provided with detailed information by the affiliate record concerning the benefit they are deriving from providing the content. The actual locations accessed and the user details are provided to the content providers. As the access system has access profiles attached to each user, these profile details can also be provided to content providers in the affiliate records to provide further information on the users accessing their content.

- 5 -

Many modifications will be apparent for those skilled in the art without departing from the scope of the present invention as herein described with reference to the accompanying drawings.

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### **CLAIMS:**

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1. A charging method, including:

maintaining a record of content of a communications network accessed by a user of the network;

determining if said content is affiliate content;

generating a charge for an affiliate based on access of said affiliate content; and generating a charge for said user based on access of other content of said record.

- 10 2. A charging method as claimed in claim 1, wherein said record includes locations of a communications network which represents said content, and said determining step involves determining if said locations correspond to affiliate content.
- A charging method as claimed in claim 1, including a plurality of said affiliate having
   respective affiliate content, and generating the charge for said affiliate based on said user accessing said respective affiliate content.
  - 4. A charging method as claimed in claim 1, including generating for said affiliate an affiliate record of said locations corresponding to said respective affiliate content accessed by said user.
  - 5. A charging method as claimed in claim 4, wherein said affiliate record includes access time for each location and for each user.
- 25 6. A charging method as claimed in claim 5, wherein said affiliate record is accessible via the communications network.
  - 7. A charging method, including: maintaining a record of content of a communications network accessed by a user of the network:

- 7 -

determining on the basis of said record a charge for an affiliate based on access of content associated with said affiliate; and

determining on the basis of said record a charge for said user based on access of other content of said record.

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- 8. A charging system including system components for executing the steps of the charging method as claimed in any one of the preceding claims.
- 9. Charging software stored on a computer readable storage medium and having code for executing the steps of the charging method as claimed in any one of claims 1 to 7.

#### INTERNATIONAL SEARCH REPORT

International application No.

#### PCT/AU00/00639 CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7: G06F 17/60, 151:00 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC: AS ABOVE Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, INSPEC (affiliate, content, charging) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* 1,7 P,X US 5 948 061 (Merriman et al.) 7 September 1999 Abstract, column 1, lines 62-65, column 8, lines 32-38 1,3,7-9 $\mathbf{X}$ US 5 819 092 (Ferguson et al.) 6 October 1998 Abstract, column 3, lines 40-50, column 4, lines 28-32,53-60, column 12, lines 15-23, column 29, lines 41-44, column 30, lines 28-30, 51-55, column 31, lines 1-7 1.3 - 9X US 5 717 923 (Dedrick) 10 February 1998 Whole document, especially column 2, lines 12-15, column 4, lines 14-16 column 8, lines 1-4, column 9, lines 34-36, 62-67, column 11, line 62 to column 12, line 6, column 13, lines 19-25, column 15, lines 1-10 $\mathbf{x}$ See patent family annex Further documents are listed in the continuation of Box Special categories of cited documents: later document published after the international filing date or "T" priority date and not in conflict with the application but cited to "A" document defining the general state of the art which is understand the principle or theory underlying the invention not considered to be of particular relevance document of particular relevance; the claimed invention cannot "E" "X" earlier application or patent but published on or after be considered novel or cannot be considered to involve an the international filing date inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) document of particular relevance; the claimed invention cannot or which is cited to establish the publication date of be considered to involve an inventive step when the document is another citation or other special reason (as specified) combined with one or more other such documents, such "O" document referring to an oral disclosure, use, combination being obvious to a person skilled in the art exhibition or other means "&" document member of the same patent family document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 13 July 2000 Name and mailing address of the ISA/AU Authorized officer AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA DALE E. SIVER

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### INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU00/00639

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	"Vicarious certification and billing agent for Web Information service" (Yoon) IEEE Proceedings of 13 <sup>th</sup> Int. Conf. on Information Networking – ICOIN'98 pp 344-349 dated 21-23 January 1998 Whole document	1,7
Y	"Value-added Internet: a pragmatic TINA-based path to the Internet and PSTN Integration" (De Zen et al.) IEEE TINA 97 pp 13-21 Global Convergence of Telecommunications and Distributed Object Computing 17-20 November 1997 Figure 1, Sections 2.1,2.2,2.3, Figure 3, Section 7	1,7

# INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/AU00/00639

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Do	cument Cited in Search Report			Patent	Family Member		
US	5819092	CA	2204736	DE	69511425	EP	792493
		JР	10508964	wo	9615505		